GEOFON
INCORPORATED

5552 CERRITOS AVE., SUITE B, CYPRESS, CA 90630
TELEPHONE: (714) 220-2777 • (213) 926-7582

October 20, 1987

Mr. Richard A. DeBeikes, Jr.
Managing Partner
Halferty & DeBeikes Properties
2300 Michelson Drive, Suite 200
Irvine, CA 92715-1336

Subject: Report, Soil Sampling and Chemical Analysis
American Cushion Manufacturing Property in
Whittier, California
GEOFON Project No. 87-203

Dear Mr. DeBeikes:

This letter report presents the results of soil chemical analysis and our recommended cleanup program for the abandoned American Cushion Manufacturing property (site) located at 12353 East Whittier Boulevard in Whittier, California. Figure 1 (Site Plan) shows areas of suspected contamination and soil sampling locations.

1.0 BACKGROUND

In September 1987, International Technology Corporation (IT) of Irvine, California performed a preliminary environmental assessment of the site. The findings of these studies were presented in a draft report entitled, "Preliminary Environmental Assessment Report, American Cushion Manufacturing Company, Whittier, California" (September 1987). We understand from this report that IT collected soil samples from three suspected contamination areas within the property (see Figure 1). In each area, samples were obtained from various locations to a maximum depth of 3 feet. Samples from each area were composited into one sample in the laboratory prior to chemical analysis. These samples were analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds, semi-volatile organic compounds, and inorganic persistent and bioaccumulative toxic substances (metals).

Laboratory results of these samples indicate presence of some contaminants in Area 1 (soil strip located west of the site between building and property fence line) and Area 3 (Dip Tank Area). To further investigate the vertical extent of contamination, Halferty & DeBeikes retained GEOFON on September 21, 1987. The intent was to obtain soil samples in the three areas from depths of 3 and 5 feet for chemical analysis. The following is the scope of work and the results of investigations performed by GEOFON.

2.0 REVIEW OF EXISTING INFORMATION

The laboratory results of composite soil samples obtained by IT from three suspected contamination areas (see Figure 1, Table 1 and Table 2) indicate the following:

- In Area 1 - The concentration of total petroleum hydrocarbons are up to 500 milligrams per kilogram (ppm).
  - The concentrations of arsenic, cadmium, copper, lead, and zinc are below Total Threshold Limit Concentrations (TTLC).
  - Performing a calculation on the levels of total substances found in the soil results in the levels of soluble substances (except lead) below the STLC (see Table 2).
- In Area 2 - The concentration of bis (2-ethylhexyl) phthalate is on the order of 5 ppm.
  - The concentrations of metals (except lead) are below STLC.
  - The concentration of total lead is below TTLC.
  - Performing a calculation on the level of total lead found in the soil results in the level of soluble lead below the STLC.
- In Area 3 - The concentration of TPH is up to 200 ppm.
  - The concentrations of metals are below STLC.
  - The concentration of bis (2-ethylhexyl) phthalate is 11 ppm.
  - The concentration of pyrene is 4 ppm.

3.0 SCOPE OF WORK

Based on the above information, on September 23 and October 13, 1987, GEOFON obtained soil samples from depths of 3 and 5 feet in Area 1 and from a depth of 5 feet in Area 2 and Area 3. These samples were obtained using a hand auger and transferred to ziplocked bags and labeled accordingly. The samples were hand delivered to West Coast Analytical Laboratories in Santa Fe Springs under GEOFON's Chain-of-Custody Record.

In the laboratory, the samples were analyzed for TPH using EPA Method 418.1. Also, the sample obtained from 3 feet in Area 1 was analyzed for total lead using EPA Method 6020, and the samples obtained from 5 feet in Area 2 and Area 3 were analyzed for semi-volatile organics using EPA Method 8270.

The results of the laboratory analyses received on September 30 and October 16 indicate that the concentration of total lead to be below the STLC value. Also, the concentrations of semi-volatile organics found in the soil sample were below the Drinking Water Action Levels recommended by the State Department of Health Services. Concentrations of TPH found in the samples collected at Area 1 from depths of 3 and 5 feet are at 340 and 81 ppm, respectively.

TPH concentration in the sample taken from a depth of 5 feet in Area 2 and Area 3 is at trace amount, less than 10 ppm. A copy of the laboratory report is attached to this letter. Table 2 is a summary of laboratory results for chemicals detected in the soil samples.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The laboratory results indicate that the concentrations of total lead and semi-volatile organics in the soil samples collected by GEOFON are below action levels. The concentration of total petroleum hydrocarbons in the samples collected from a depth of 5 feet at Area 1, Area 2, and Area 3 are at 81 ppm, trace (less than 10 ppm), and not detected (less than 10 ppm), respectively. Although there is no cleanup action level set for petroleum hydrocarbons, in most similar cases, a 100 ppm TPH level is considered to be the approximate cleanup action level.

The laboratory results of soil samples collected by GEOFON and IT, suggest that the contamination found in Area 1 and Area 3 decreases with depth. At 5 feet in Area 1, the concentration of TPH is below 100 ppm.

Based on these findings, we recommend that Halferty & DeBeikes undertake the following remediation program.

- Remove the building, the dip tanks, and the painting booth; and dispose of them appropriately.

- Excavate contaminated soils to a depth of five feet from the Dip Tank Area (Area 3) and the soil strip located on the west side of the property (Area 1) and dispose of them in an appropriate landfill facility.

The above conclusions and recommendations are based on information collected during this study and our best judgment. For the purpose of our evaluation, it was assumed that the tested soil samples are representative of the general soil deposits.

Halferty & DeBeikes is responsible for informing the regulatory agencies of the findings at the site and obtaining required concurrence on the cleanup program. Further, Halferty & DeBeikes is responsible for obtaining approval for disposal of contaminated material in an appropriate landfill from the regulatory agencies and seeking a final approval of the actual site cleanup.

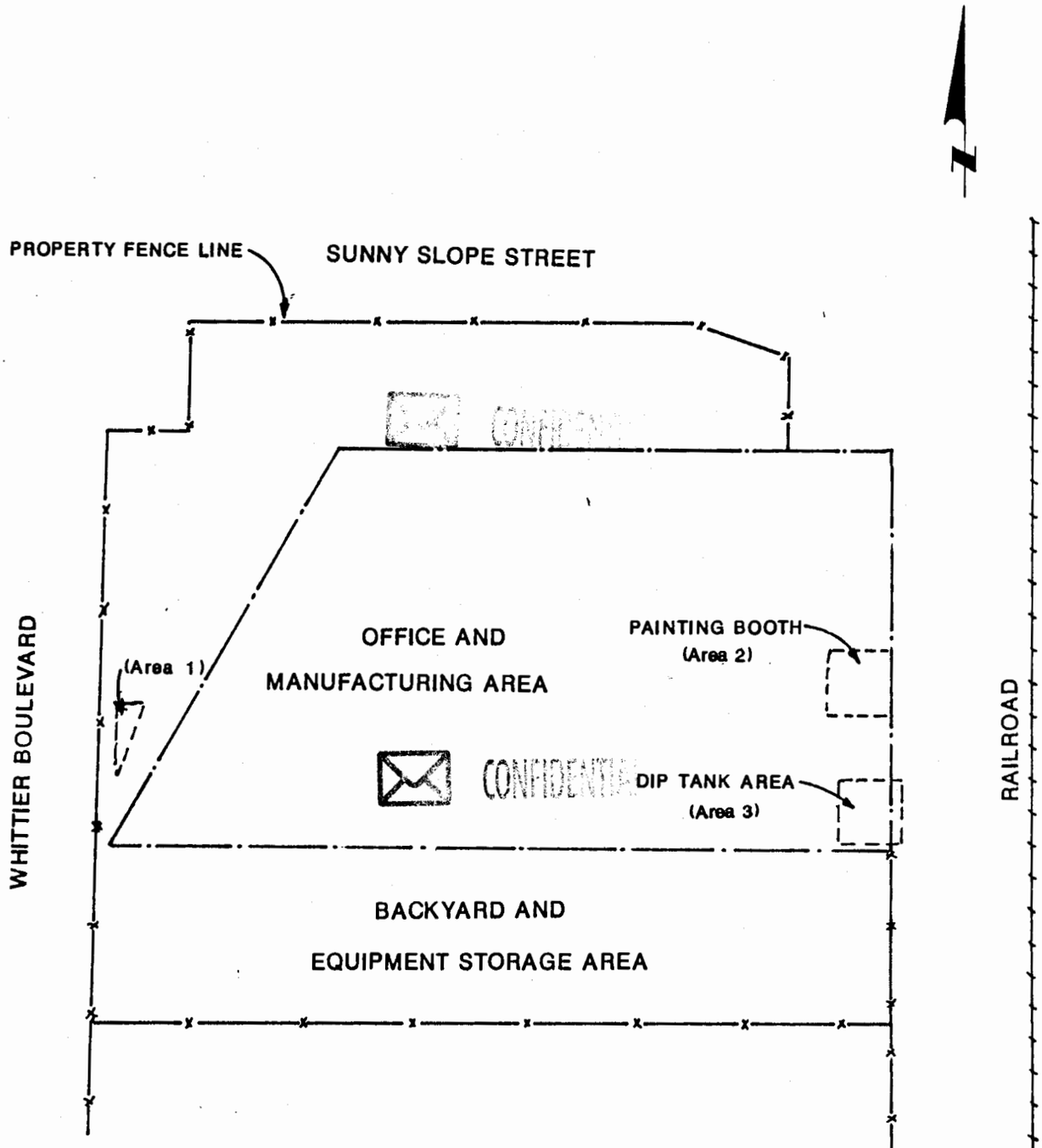
GEOFON is pleased to assist Halferty & DeBeikes on this project. If there are any questions regarding this report, please contact us.

Very truly yours,
GEOFON, Inc.

S. Javad Masoudi
Project Manager

Alexander I. Khan, P.E.
President

Enclosures: Figure 1 - Site Plan and Soil Sampling Locations
Table 1 - Summary of Soil Sampling Program
Table 2 - Summary of Laboratory Results
Laboratory Report



NOTE; This map is produced based on Figure 1 of DRAFT
"PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT
AMERICAN CUSHION MANUFACTURING COMPANY
WHITTIER, CALIFORNIA," By IT Corporation, September 1987.

GEOFON

PROJECT # 87-203

Appx. Scale: 1"=50'

SITE PLAN

AND SOIL SAMPLING LOCATIONS

10, 1987

FIGURE 1

TABLE 1

SUMMARY OF SOIL SAMPLING PROGRAM

AREA NO.	LOCATION	SAMPLED BY	SAMPLING DATE	NO. OF SAMPLES	SAMPLING DEPTH (ft)	NO. OF COMPOS.	SAMPLE I.D. NO.
1	Soil strip located west of the site between building and west property fence line	IT	8/10/87	3	1, 2, 3	1	B_1 Comp
1	As above	GEOFON	9/23/87	1	3	1	C_1 D
1	As above	GEOFON	9/23/87	1	5	1	C_1 E
2	Painting Booth Area	IT	8/10/87	2	1, 2	1	B_2 Comp
2	As above	GEOFON	9/23/87	1	5	1	C_3 E
3	Dip Tank Area	IT	8/10/87	4	0, 1, 2, 3	1	B_3 Comp
3	As above	GEOFON	10/13/87	1	5	1	C_2E

TABLE 2

SUMMARY OF LABORATORY RESULTS

CONCENTRATION (ppm)

SAMPLE I.D. NO.	TPH	BIS(2-ETHYLHEXYL) PHTHALATE	ISOPHORONE	PYRENE	ARSENIC	CADMIUM	COPPER	LEAD	ZINC
B_1 Comp.	500	ND (3.0)	ND (3.0)	ND (3.0)	11.0*	2.0*	30.0*	98.1**	431.0*
C_1 D	340	NA	NA	NA	NA	NA	NA	0.2	NA
C_1 E	81	NA	NA	NA	NA	NA	NA	NA	NA
B_2 Comp.	NA	5.0	ND (0.3)	ND (0.3)	2.4	0.8	12.0	8.4*	42.0
C_3 E	TR (10)	3.6	0.11	ND (0.03)	NA	NA	NA	NA	NA
B_3 Comp.	200	11.0	ND (3.0)	4.0	2.2	0.6	11.0	2.2	33.3
C_2E	ND (10)	ND (0.03)	ND (0.03)	ND (0.03)	NA	NA	NA	NA	NA
DWAL	NAL	NAL	NAL	NAL					
TTLC					500	100	2500	1000	5000
STLC					5.0	1.0	25.0	5.0	250

ppm - Parts per million equivalent to milligrams of substance in one kilogram of soil or one liter of water

TPH - Total petroleum hydrocarbons

ND - Not detected at or above the amount stated in the table

NA - Not analyzed

NAL - No Action Level

TR - This compound was present, but was below the detection level which is stated in the table.

DWAL - Drinking Water Action Level recommended by State Department of Health Services

TR - This compound was present, but was below the detection level which is stated in the table.

* - Concentration exceeds the Total Threshold Limit Concentration (TTLC) for Persistent and Bioaccumulative Toxic Substances, according to Title 22, California Administrative Code, Division 4, Chapter 30, Article 11, Section 66696 (CAC).

STLC - Soluble Threshold Limit Concentration in milligrams per liter.

TTLC - Total Threshold Limit Concentration in milligrams per kilogram.

** - The concentration of this substance is above STLC level after applying a 10-fold reduction factor.

NOTE: For determining the concentrations of soluble substances, the California Waste Extraction Test can be performed. This procedure requires 50 grams of sample to be extracted into 500 milliliters of extraction solution. Therefore, the sample undergoes a 10-fold dilution assuming all of the analyte is soluble.

OCT 16 1987

October 15, 1987

WCAS
WEST COAST ANALYTICAL SERVICE, INC.
ANALYTICAL CHEMISTS

GEOFON, INC.
5552 Cerritos Avenue, Suite B
Cypress, CA 90630

Attn: J. Masoudi

JOB NO. 7419

LABORATORY REPORT

Samples Received: One (1) soil sample
Date Received: 10-13-87
Purchase Order No: 0111/Project No: 87-203

The sample was analyzed as follows:

Samples Analyzed	Analysis	Results
C2E	Semi-volatile organics - EPA 8270	Data Sheets
C2E	Total Petroleum Hydrocarbons- EPA 418.1	Table I

TABLE I

Parts Per Million

Sample No.	Total Petroleum Hydrocarbons
C2E	ND
Detection Limit	10

Date Analyzed: 10/14/87

Mary Stordal
Analytical Chemist

B. Michael Hovanec
Senior Staff Chemist

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: GEOFON, INC.
SAMPLE: C2E
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	10/13/87	GCMS FILENAME:	7419B1
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	10/14/87	DATE ANALYZED:	10/14/87
STANDARD ID:	BNAZ219	INSTRUMENT ID:	4500
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: GEOFON, INC.
SAMPLE: C2E
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	10/13/87	GCMS FILENAME:	7419B1
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	10/14/87	DATE ANALYZED:	10/14/87
STANDARD ID:	BNAZ219	INSTRUMENT ID:	4500
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: GEOFON, INC.
SAMPLE: C2E

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG(PPB)
1	NONE FOUND	BNA	

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

TR - Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified DL but greater than zero.

#7419

GEOFON, Inc.
6552 Cerritos Avenue, Suite B
Cypress, CA 90630

CHAIN-OF-CUSTODY RECORD

R/A Control No. R-87-203-2

C/C Control No. C87-203-2

PROJECT NAME/NUMBER Amc. Casting / 87-203

LAB DESTINATION WEST COAST ANALYTICAL

SAMPLE TEAM MEMBERS RAJU ABRAHAM.

CARRIER/WAYBILL NO.

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
C_2E	5' depth, Dip tank Area	10/13/87, 10:30		Glass	Good, 10/13/87 Rita	

Special Instructions: None

Possible Sample Hazards: Residual semivolatile organics

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: (Raju)

Received By: Rita #7419

2. Relinquished By:

Received By:

3. Relinquished By:

Received By:

WCAS
WEST COAST
ANALYTICAL
SERVICE, INC.
ANALYTICAL CHEMISTS

September 16, 1987

To Our Clients:

The California Department of Health Services (DHS) has dictated that certified Hazardous Waste Testing laboratories must confirm positive GC test results by either a second column GC test or GCMS on at least 5% of the samples. WCAS supports this latest ruling. A copy of the DHS ruling is enclosed.

WCAS has <u>always</u> confirmed GC test results for pesticides (EPA 608, 614), solvents (EPA 601/602), and others whenever we felt it was necessary. Our practice is:

Pesticides (608,614)	100% confirmed by 2nd column GC GCMS confirmation on high concentrations.
Solvents (601,602)	Confirmation by GCMS whenever there are co-eluting peaks or questionable results.

Pesticides and solvents are the two analyses most impacted by this ruling. Fuel hydrocarbons (EPA mod 8015), PCBs, and a few others that give characteristic chromatographic patterns are exempted from confirmation.

Since the cost of additional analysis is often passed on to you, our client, we thought you should be aware of these facts so that you can plan your projects accordingly. We suggest that the most cost effective way to satisfy these DHS requirements is to routinely choose the worse case samples to be analyzed by GCMS, at least one per site. In addition, WCAS has always encouraged Quality Assurance measures such as field blanks, field duplicates, and blind spikes.

If you have any further questions, please call us or DHS.

Dr. Jack Northington	WCAS	213-948-2225
Dr. Fred Seto	DHS	415-540-3105
Dr. Robert Stephens	DHS	415-540-3003

Second Column or GC/MS Confirmation

Effective September 1, 1987, all laboratories certified by the Department under Health and Safety Code Section 25198 to perform hazardous waste testing are required to use second column or GC/MS confirmation for all positive results in gas chromatographic organic analysis unless exempted in the following situations:

1. The analytes of interest can produce gas chromatograms containing "pattern" peaks which match appropriate standards. These analytes include polychlorinated biphenyls (PCBs), hydrocarbon fuels (e.g., gasoline), and toxaphene, or

2. The sample is analyzed for benzene, toluene, and xylenes (BTX) for gasoline tank removal purposes and the same sample was found to contain gasoline by a separate analysis. However, the presence of BTX in a sample containing no gasoline must be confirmed, or

3. The samples meet all of the following requirements:

   a. All samples (liquid or solid) come from the same source, e.g., groundwater samples from the same well, for continuous monitoring. However, samples of same matrix from the same site but from different sources (different sampling locations) are not exempted.

   b. All chemical parameters have been previously analyzed, identified, and confirmed by a second column or GC/MS. The laboratory must have the necessary documents indicating previous confirmation.

   c. The resulting gas chromatograms are relatively simple and do not contain complex or overlapping peaks.

   d. Chromatograms are largely unchanged from those for which confirmation was carried out.

   e. Representative samples must be periodically confirmed at a frequency of at least 5%.

September 29, 1987

SEP 30 1987

GEOFON, INC.
5552 Cerritos Avenue, Suite B
Cypress, CA 90630

Attn: J. Masoudi

JOB NO. 7216

WCAS
WEST COAST ANALYTICAL SERVICE, INC.
ANALYTICAL CHEMISTS

FINAL LABORATORY REPORT

Samples Received: Three (3) soil samples
Date Received: 9-23-87
Purchase Order No: 0109

The samples were analyzed as follows:

Samples Analyzed	Analysis	Results
C3E	Semi-Volatile Organics by EPA 8270	Data Sheets
C1D, C1E, C3E	Total Petroleum Hydrocarbons by EPA 418.1	Table I
C1D	Total Lead by EPA 6020	Table II

Michael Shelton
Senior Chemist

D.J. Northington, Ph.D.
Technical Director

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225

WEST COAST ANALYTICAL SERVICE, INC.

Geofon
Mr. J. Masoudi

Job # 7216
Sept. 29, 1987

FINAL LABORATORY REPORT

TABLE I

Parts Per Million

Sample No.	Total Petroleum Hydrocarbons
C1D	340
C1E	81
C3E	TR<10
Detection Limit	10

TR - Trace

Date Analyzed: 9-24-87

TABLE II

Parts Per Million

Sample No.	Total Lead
C1D	0.2
Detection Limit	0.05

Date Analyzed: 9-28-87

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: GEOFON INC.
SAMPLE: C3E
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	09/23/87	GCMS FILENAME:	7216B2
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	09/24/87	DATE ANALYZED:	09/24/87
STANDARD ID:	BNAZ213	INSTRUMENT ID:	4500
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	110.	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: GEOFON INC.
SAMPLE: C3E
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	09/23/87	GCMS FILENAME:	7216B2
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	09/24/87	DATE ANALYZED:	09/24/87
STANDARD ID:	BNAZ213	INSTRUMENT ID:	4500
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	3600.	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: GEOFON INC.
SAMPLE: C3E

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG(PPB)
1	C7-C9 HYDROCARBONS	BNA	5000.

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

TR - Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified DL but greater than zero.

GEOFON, Inc.
5552 Cerritos Avenue, Suite B
Cypress, CA 90630

REQUEST FOR ANALYSIS

Lab Control No. R- 203

C/C Control No. C 203-1

PROJECT NAME/NUMBER: [illegible] Mfg 87-203

SAMPLE TEAM MEMBERS: [illegible].

PROJECT MANAGER: [illegible] MASOUDI

BILL TO: GEOFON, Inc.
5552 Cerritos Avenue, Suite B
Cypress, CA 90630

Attention: ______

Project No. ______

PURCHASE ORDER NO. ______

CONFIRMED BY ______

DATE SAMPLES SHIPPED: 9/23/87

LAB DESTINATION: West Coast Analytical.

LABORATORY CONTACT: Glenn Daniels.

SEND LAB REPORT TO: GEOFON, Inc.
5552 Cerritos Avenue, Suite B
Cypress, CA 90630

Attention: J. MASOUDI

DATE REPORT REQUIRED: 9/25/87

Sample No.	Sample Type	Sample Volume/Weight	Preservative	Requested Testing Program	Special Instructions
C1D	Soil	1 Kg	None	TPH (418.1), soluble lead	Best Detection level
C1E	"	"	"	" ,	
~~C3D~~	"	"	"	", CAM metals, soluble lead if above STLC	
C3E	"	"	"	", Semi Volatiles (EPA 8270)	Best Detection level

TURNAROUND TIME REQUIRED: Normal ______ days Rush 48 hours

POSSIBLE HAZARD IDENTIFICATION: Nonhazard ✓ Flammable ______ Skin Irritant ______ Highly Toxic ______ Other ______

SAMPLE DISPOSAL: Return to Client ______ Disposal by Lab ✓

FOR LAB USE ONLY

#7216 Received by Mary C. Date/Time 9-23-87 - 1:10 pm.

GEOFON Inc.
5552 Corporate Avenue, Suite B
Cypress, CA 90630

CHAIN-OF-CUSTODY RECORD

R/A Control No. R 203-1
C/C Control No. C 203-1

PROJECT NUMBER Hyundai Corporation Mfg. Co. 87-203
LAB DESTINATION West Coast Analytical
SAMPLERS
CARRIER/WAYBILL NO. Hand ~~Car~~ Delivery.

Sample Number	Sample Location and Description	Date and Time Collected	Sample Type	Container Type	Condition on Receipt (Name and Date)	Disposal Record No.
C1D	5 byd at Area 1	4:30 PM, 09/22	Soil	Zip Bags		
C1E	5 byd at " "	10:30 AM 09/23	"	"		
C3D	5 byd at Area 3	11:30 AM, 09/23/87	"	"		
C3E	5 byd at Area 3	11:30 AM, 09/23/87				

Special Instructions:

Possible Sample Hazards: Petroleum Hydrocarbons and lead.

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished By: Ray
   Received By: Mary Cederwall #7216
2. Relinquished By:
   Received By:
3. Relinquished By:
   Received By:

WCAS 9-23-87 9:10 p.m.